

last-concat^{11,40}

$\forall T:\text{Type}, l:(T \text{ List List}).$
 $(\neg(\text{concat}(l) = [] \in (T \text{ List})))$
 $\Rightarrow (\exists ll_1:T \text{ List List}$
 $\exists l_1:T \text{ List}$
 $(\text{concat}(l) = (\text{concat}(ll_1) @ l_1 @ [\text{last}(\text{concat}(l))]) \in (T \text{ List})$
 $\& ll_1 @ [(l_1 @ [\text{last}(\text{concat}(l))])] \leq l)$